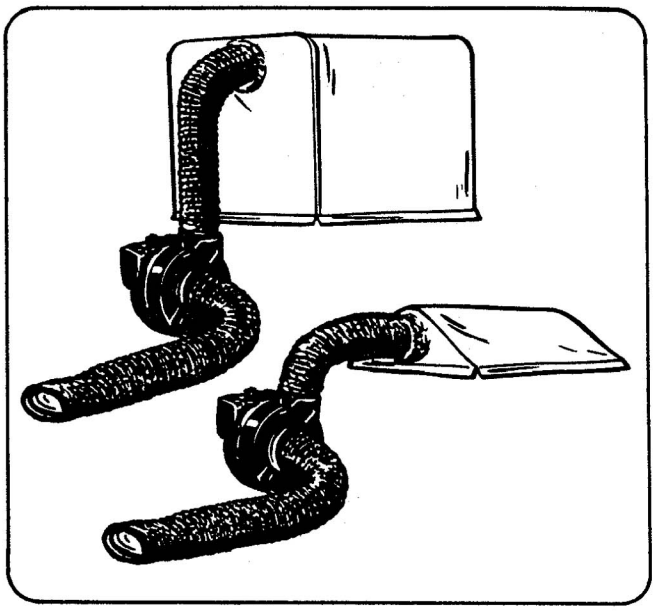
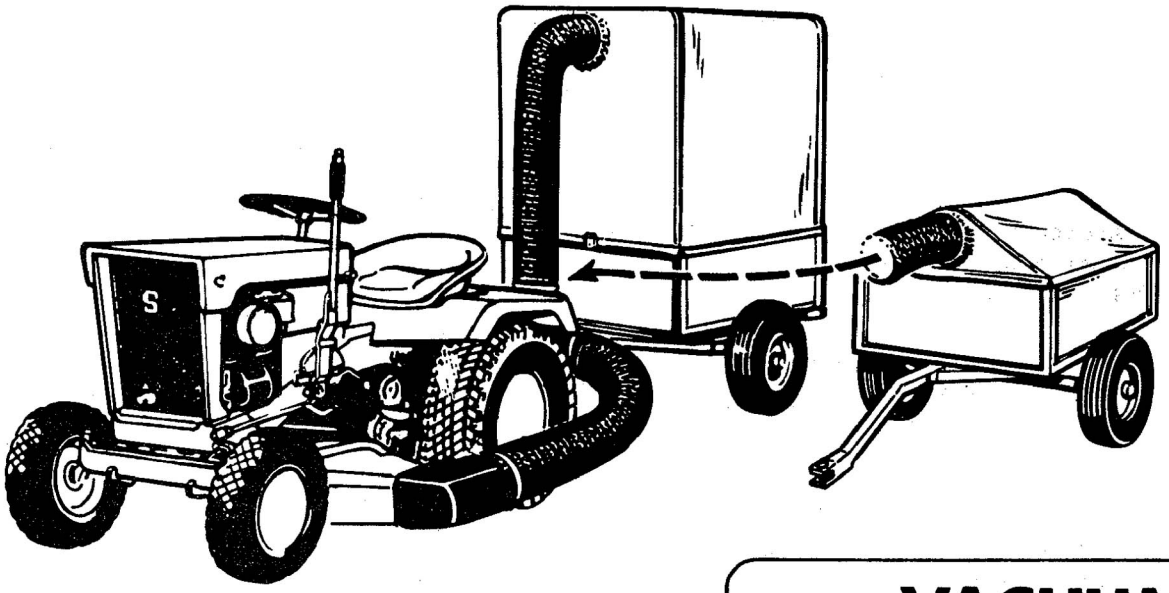
Simplicity®





VACUUM COLLECTOR

LOW PROFILE TRAILER FRAME & COVER
MFG. NO. 624

HIGH CAPACITY TRAILER FRAME & COVER
MFG. NO. 531

ATTACHMENTS

ROVING NOZZLE MFG. NO. 447
VACUUM COLLECTOR ADAPTER MFG. NO. 620
VACUUM COLLECTOR ADAPTER MFG. NO. 621

1970 PRODUCTION YEAR

Mfrs. No. 619

LITHO IN U. S. A.

SIMPLICITY MANUFACTURING COMPANY, INC.

PACKING

The Vacuum Collector is delivered complete in two cartons. The long carton contains:

2 - Hoses

The short carton contains:

1 - V.C. Blower Assembly
1 - Deflector
3 - Hose Clamps
1 - Flange – Hose
1 - Pack of Hardware

Should any shortages of the above items occur, advise by stating the packers number listed on the green packing slip, part number and description of items missing.

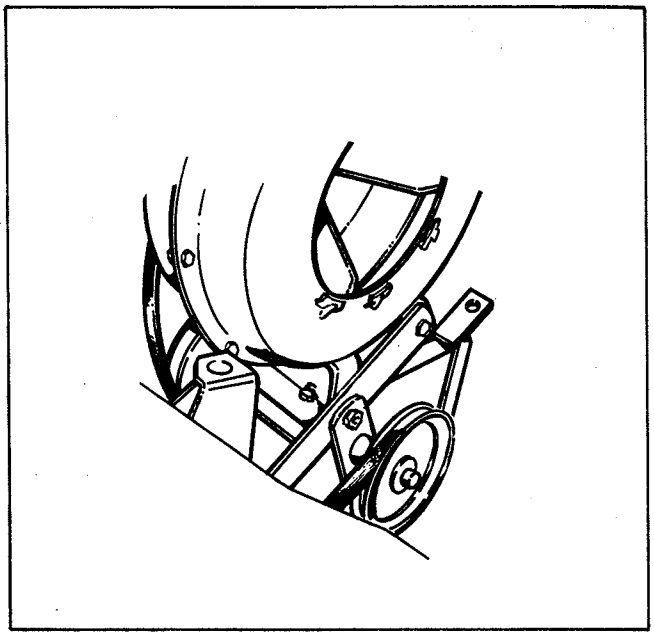


Figure 1

ASSEMBLY

1. The blower unit comes fully assembled. Attach the blower unit to the tractor rear hitch by means of the pins and clips provided.

2. Prepare the rotary mower attachment for use with the vacuum collector by attaching the correct adapter kit. Example: See Figures 2 and 3. Note the bolt nearest the exhaust opening has a spacer and flat washer under the attaching nut (Figure 2). Attach the carriage bolt for the exhaust cover (Figure 2) and secure the cover in position by means of the large wing nut assembly provided in adapter kit (Figure 3).

3. Secure the large hose to the left side of the blower with the clamp, flange and hardware provided (Figure 4) and then place the other end at the large hose securely over the spout extension on the exhaust cover (Figure 3) of the adapter kit.

4. Install deflector No. 123107 in the exhaust hole at the top of the blower housing with self-tapping screws.

5. Place the pulley on the shaft of the bevel gear housing. The new pulley will be secured outboard of the P.T.O. pulley with the key and setscrew provided. (Figure 5).

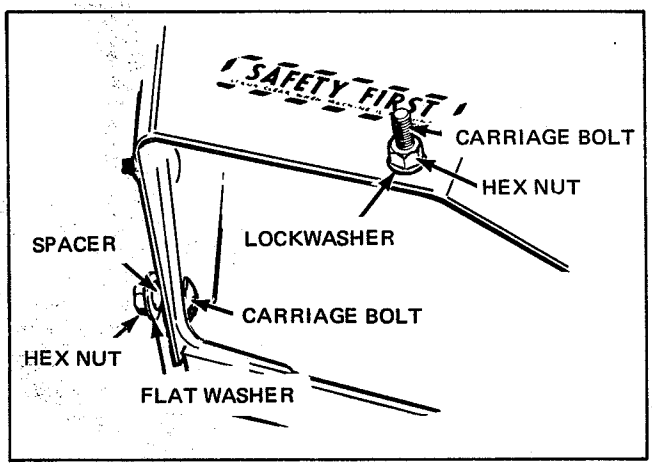


Figure 2

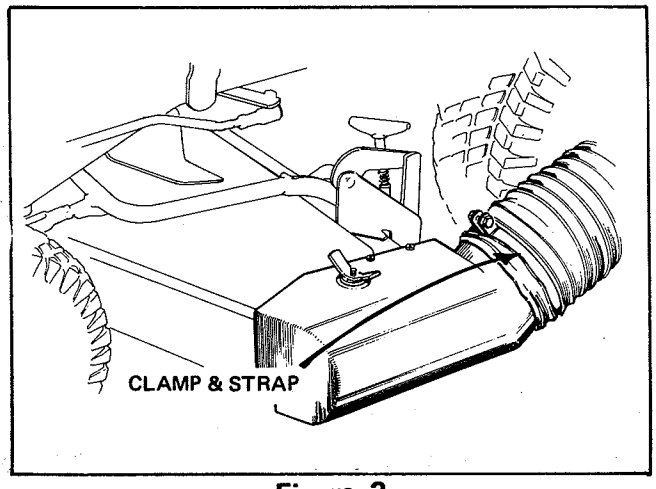


Figure 3

6. Place "V" belt (furnished with adapter kits) around the previously installed pulley. Run other end around the drive pulley and idler pulley which are mounted on the frame at blower. The spring on the idler pulley will automatically adjust belt tension. (Figure 5).

7. Remove the pulley guard on the upper right side of the blower assembly and position the blower drive belt over the pulleys as shown (Figure 6). Adjust the belt tension as required. A space of approximately 3/4" should be between the set collar and guide bracket when engaged (Figure 6). Replace the pulley guard (Figure 7).

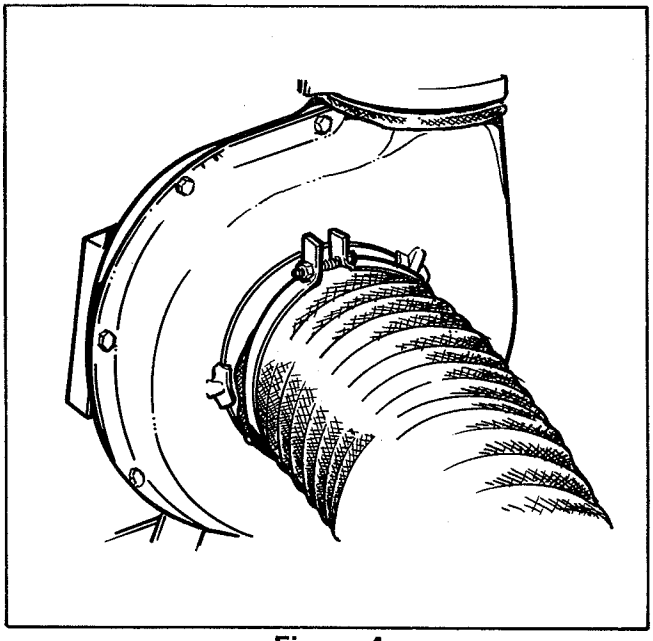


Figure 4

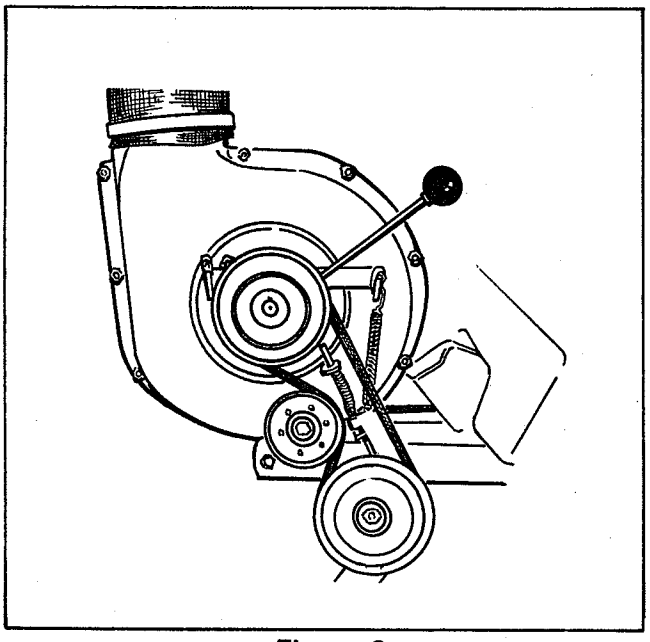


Figure 6

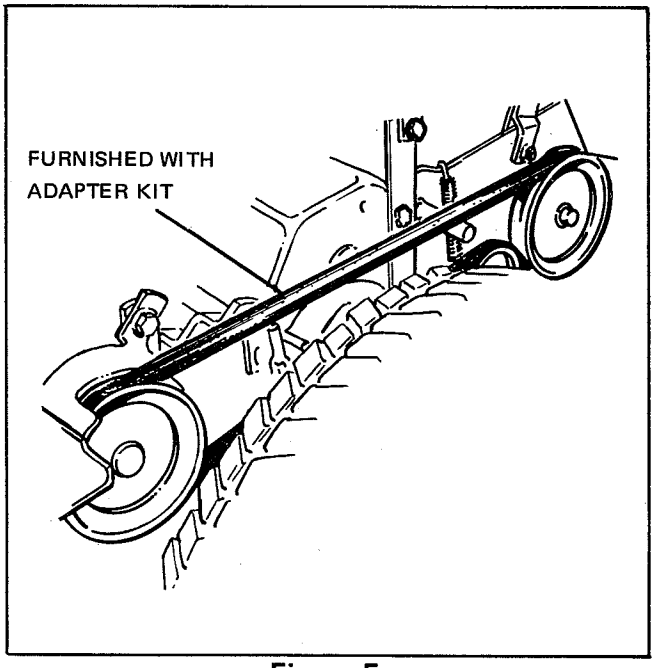


Figure 5

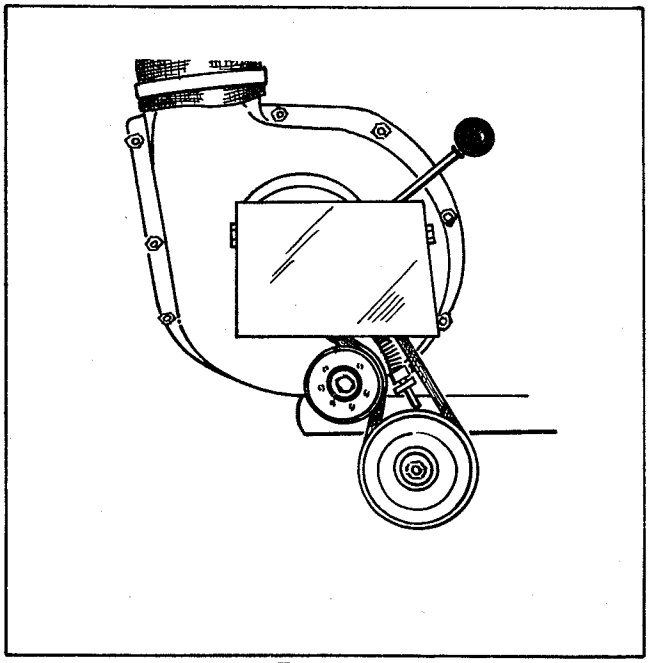


Figure 7

Mfrs. NO. 531 HIGH CAPACITY TRAILER FRAME & COVER

PACKING

The High Capacity Trailer Frame & Cover Assembly is delivered complete in one carton. The carton contains:

1 - Canvas Cover
1 - Door Cover
1 - Pack of Hardware

Should any shortages of the above items occur, advise by stating the packers number listed on the green packing slip, part number and description of items missing.

ASSEMBLY

The cart enclosure for the vacuum collector consists of a metal framework and a canvas cover, all of which fits on the dump cart body.

1. The canvas cover is completely assembled to the metal framework with the exception of the upper hanger brackets and the front catch.

2. Unfold the canvas cover assembly and secure the four corner braces with the hardware provided. See Figure 1.

3. Remove the upper hanger brackets from the hardware pack and assemble as shown in Figure 2.

4. Remove the catch assembly from the hardware pack and assemble as shown in Figure 3. The catch is secured with a locknut which should be tightened just enough to hold securely but still allow pivoting.

5. Secure the smaller sized hose to the outlet opening on top of the blower housing. The other end of the hose is positioned through the canvas sleeve at the upper front of the cart enclosure and secured in place by means of the strap and bucket. See Figure 4.

Figure 1

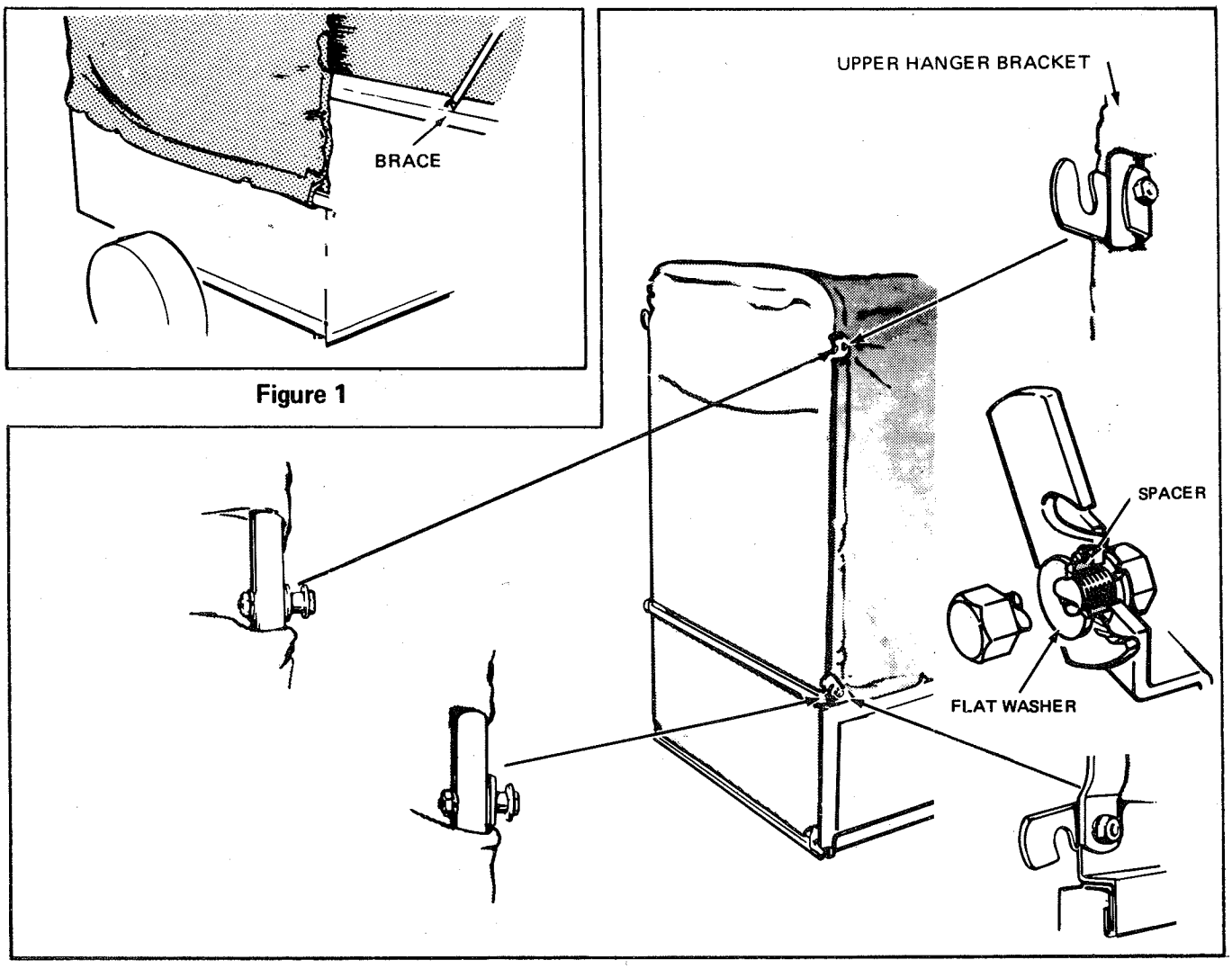


Figure 2

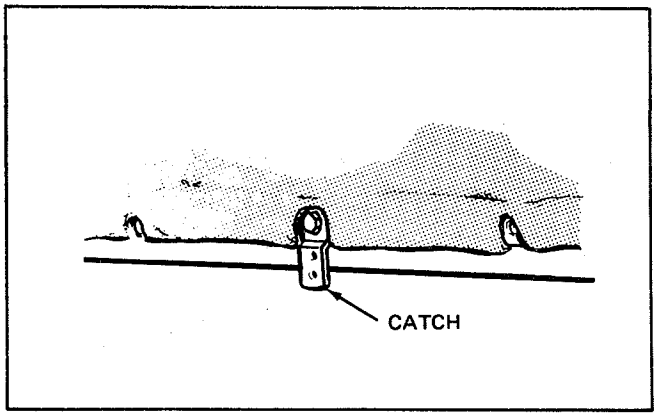


Figure 3

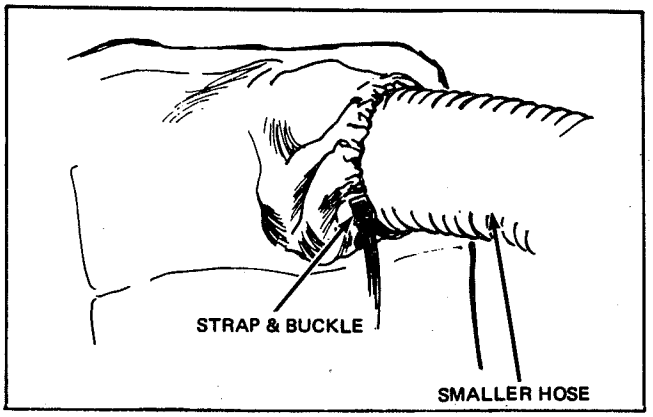


Figure 4

ADJUSTMENT

1. To obtain maximum efficiency from the vacuum collector, it is recommended that all assembly instructions be closely followed when mounting the vacuum collector to the tractor. A check should be made to insure the belts are in the correct location and have the proper tension. Too much tension on a belt will cause premature failure of the belt. Not enough tension will cause the belt to slip and impair the operation of the vacuum collector.

OPERATION

1. Be sure unit is properly adjusted and attached to tractor.

2. Inspect hoses, housing and fan assembly and remove grass clippings and material from vacuum collector after use. Be sure the fan is tight on the bag shaft assembly.

3. In some operations it may be advisable to use a ground speed reduction kit on the tractor. Slowing the ground speed and maintaining the fan speed will produce increased vacuum.

4. Insure mower is engaged and operate the tractor at 3/4 to full throttle. In extreme conditions it may be desirable to operate the tractor in first or second gear rather than in third gear.

5. In wet or extremely high grass, it may be necessary to pick up only half the mower width rather than the full width, to prevent the hoses from becoming clogged with grass.

6. When picking up leaves or tall grass, raise the mower to the highest cutting position. A second pass can then be made with the mower at a low setting to complete the job.

7. Unzip the zipper on the canvas cover during normal operation to provide an air release in the cart enclosure. During some operations it may be desirable to have the zipper in the half closed or fully closed position.

Mfrs. NO. 624 LOW PROFILE TRAILER FRAME & COVER

PACKING

The Low Profile Trailer Frame & Cover is delivered complete in one carton. The carton contains:

1 - Canvas Cover Assembly

Should any shortages of the above items occur, advise by stating the packers number listed on the green packing slip, part number and description of items missing.

ASSEMBLY

1. The canvas cover is completely assembled to the metal framework. However, all hardware is loose to prevent damage during shipment.

2. Position the four special stud assemblies and two front stops as shown in Figure 1 and tighten hardware securely.

3. Tilt the cover and frame assembly forward and hook stops over front lip of dump cart. Tip cover and frame assembly back and secure with latch under rear edge of cart. Insure that the side flaps on the cover are positioned inside the dump cart.

4. Place 6" diameter hose in cover sleeve and secure by tightening strap in sleeve.

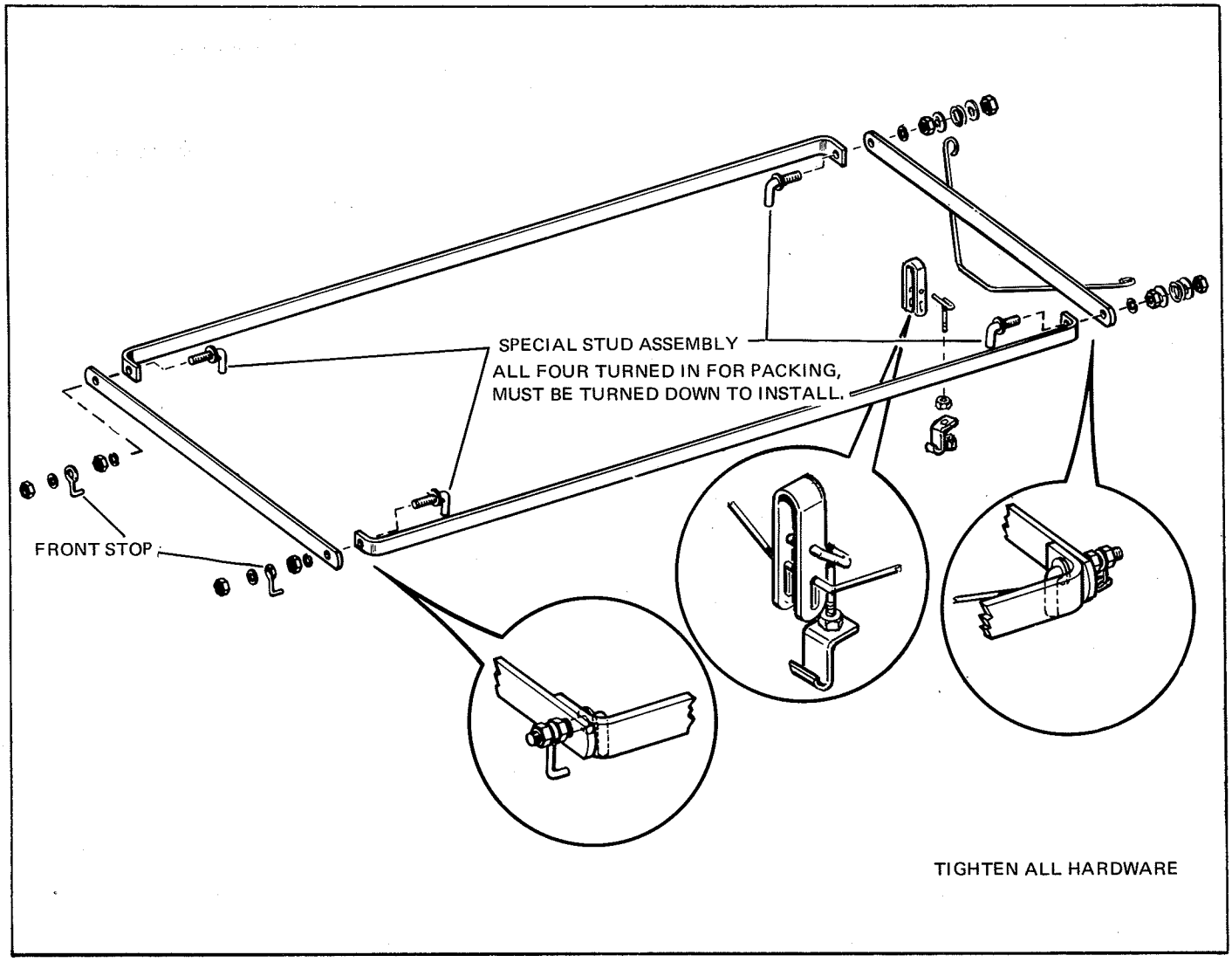
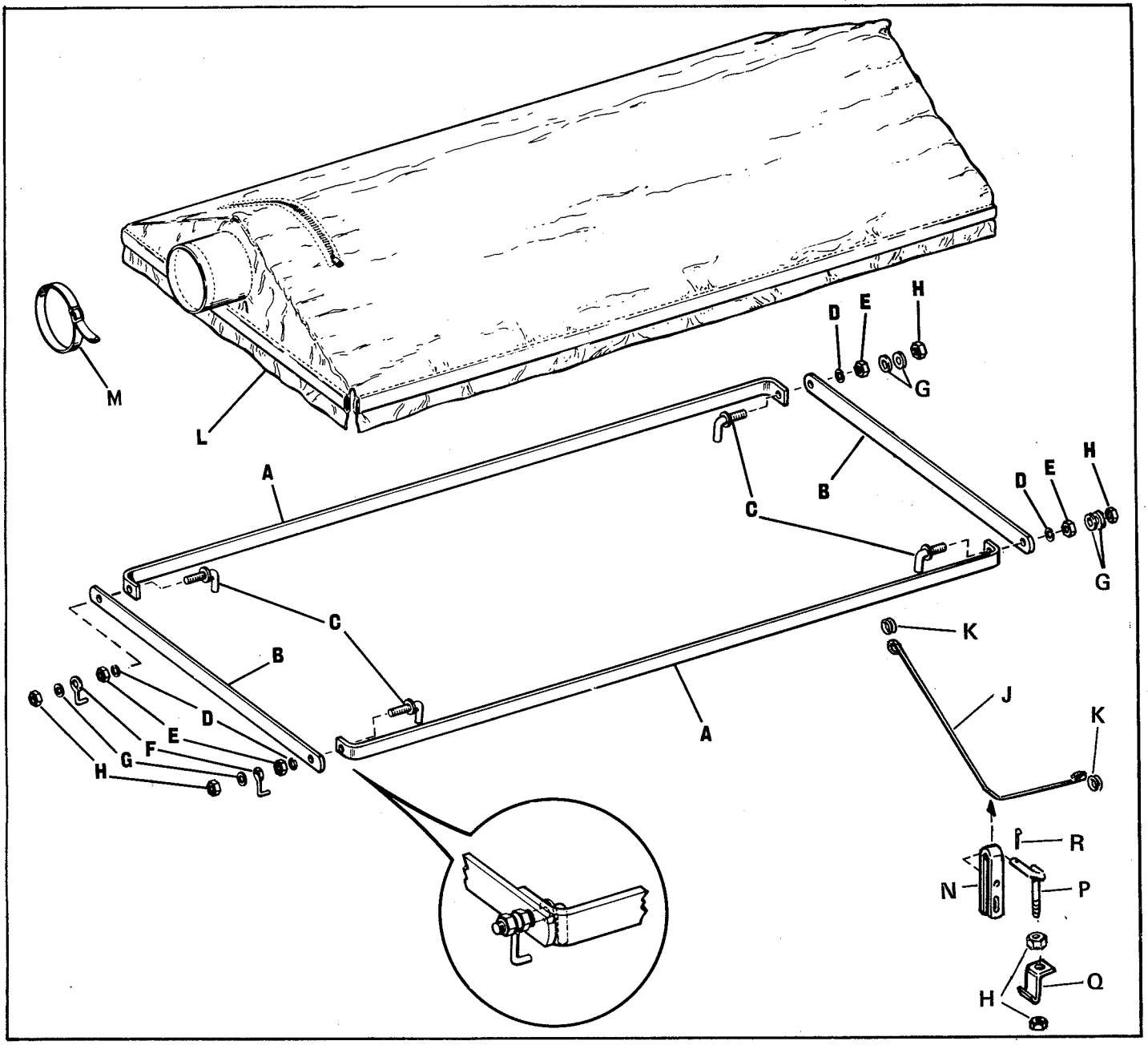


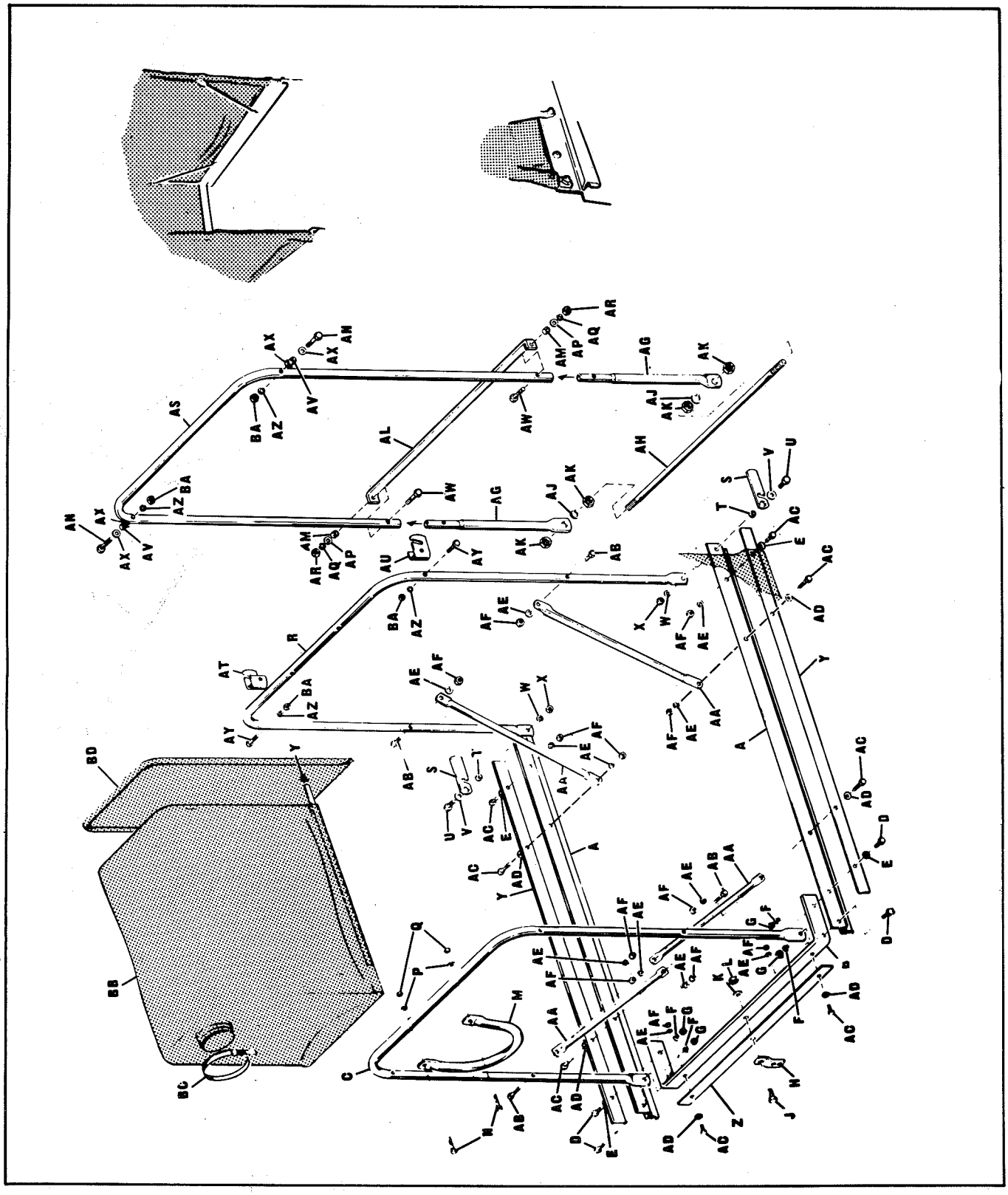
Figure 1

Mfrs. NO. 624 LOW PROFILE TRAILER FRAME & COVER



Ref. Let.	Part No.	Description
A	123130	Side Member-Frame
B	123131	End Bracket-Frame
C	123132	Stud Ass'y-Special
D	720001	Washer-Lock-5/16"
E	717001	Nut-Hex-Full 5/16"–18NC
F	123134	Stop
G	719002	Washer-Plain 5/16"
H	717511	Nut-Hex-Full-Lock 5/16"–18NC
J	170003	Bail
K	170134	Repair Link
L	123136	Cover W/Hose Strap
M	123049	Hose Strap (Service Only)
N	170002	Lever
P	170001	Latch Rod
Q	17000	Latch
R	722006	Cotter Pin, 1/8" x 1"

Mfrs. NO. 531 HIGH CAPACITY TRAILER FRAME & COVER



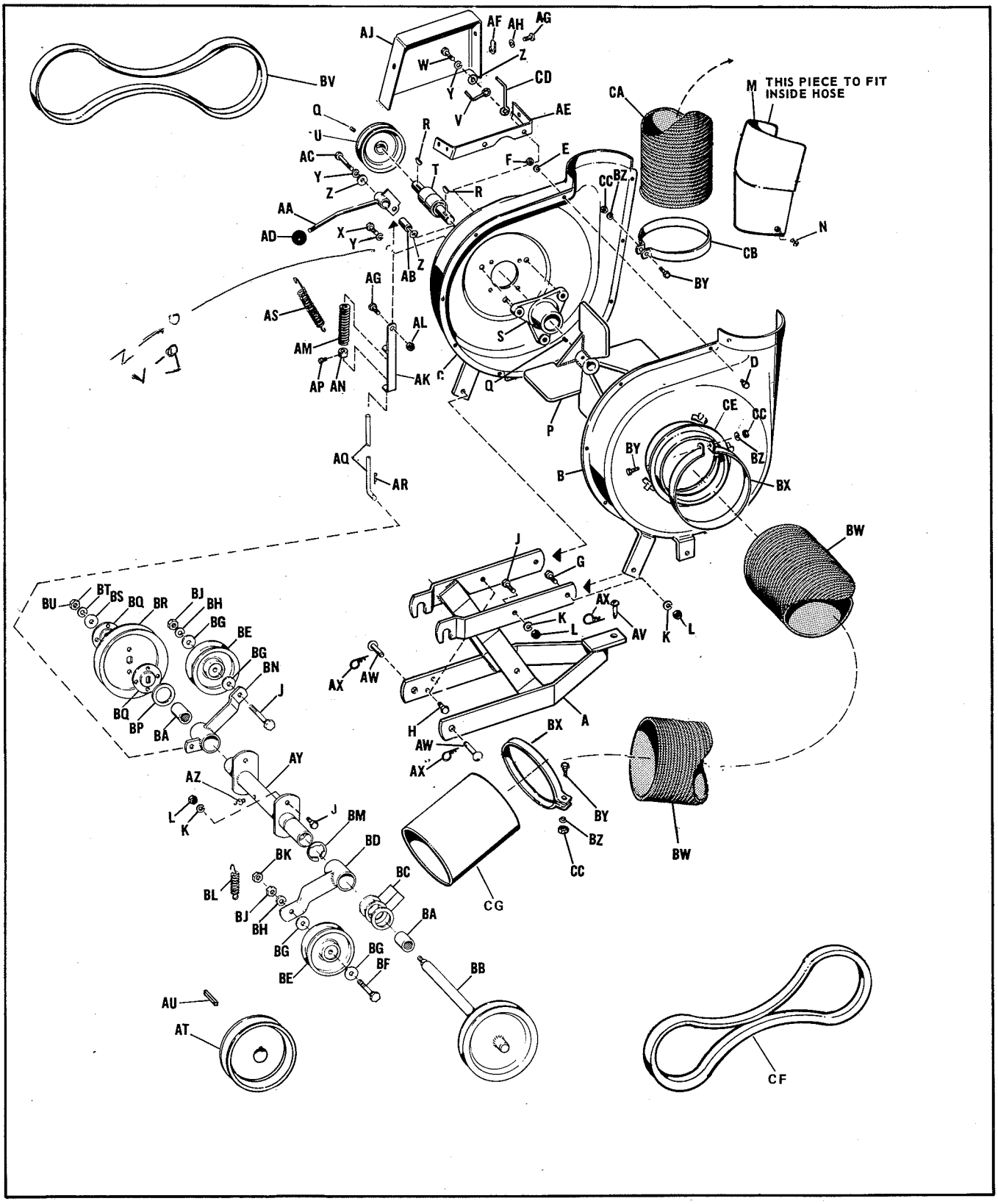
Mfrs. NO. 531 HIGH CAPACITY TRAILER FRAME & COVER

PARTS LIST

Ref. No.	Part No.	Description
A	123036	"Z" Bar, Side
B	123037	Front Bar
C	123038	Front and Rear Upright
D	705007	Hex Capscrew, 5/16"-18 x 1" lg.
E	719002	Plain Washer, 5/16"
F	720001	Lock Washer, 5/16"
G	717001	Hex Nut, Full, 5/16"-18
H	112060	Bracket
J	705005	Hex Capscrew, 3/8"-16 x 1" lg.
K	719001	Plain Washer, 3/8"
L	717510	Hex Lock Nut, Full, 3/8"-16
M	123039	Hose Support
N	705008	Hex Capscrew, 1/4"-20 x 1-1/4 lg.
P	720003	Lock Washer, 1/4"
Q	717005	Hex Nut, Full, 1/4"-20
R	123038	Front and Rear Upright
S	123040	Rear Door Latch
T	156150	Spacer
U	705001	Hex Capscrew, 5/16"-18 x 7/8" lg.
V	719002	Plain Washer, 5/16"
W	720001	Lock Washer, 5/16"
X	717001	Hex Nut, Full, 5/16"-18
Y	123052	Hold Down Strip, Side
Z	123053	Hold Down Strip, Front
AA	123041	Cross Brace Tube
AB	705008	Hex Capscrew, 1/4"-20 x 1-1/4" lg.

Ref. No.	Part No.	Description
AC	705030	Hex Capscrew, 1/4"-20 x 3/4" lg.
AD	719006	Plain Washer, 1/4"
AE	720003	Lock Washer, 1/4"
AF	717005	Hex Nut, Full, 1/4"-20
AG	123042	Tube, Rear Door
AH	123043	Rod, Rear Door
AJ	720004	Lock Washer, 1/2"
AK	717006	Hex Nut, Full, 1/2"-13
AL	123044	Bar, Rear Door
AM	123045	Spacer
AN	705025	Hex Capscrew, 1/4"-20 x 1-3/4" lg.
AP	719006	Plain Washer, 1/4"
AQ	720003	Lock Washer, 1/4"
AR	717005	Hex Nut, Full, 1/4"-20
AS	123046	Top Rear Door
AT	123047	Catch, Door, R. H.
AU	123048	Catch, Door, L. H.
AV	123045	Spacer
AW	705053	Hex Capscrew, 1/4"-20 x 1-3/4" lg.
AX	719006	Plain Washer, 1/4"
AY	705008	Hex Capscrew, 1/4"-20 x 1-1/4" lg.
AZ	720003	Lock Washer, 1/4"
BA	717005	Hex Nut, Full, 1/4"-20
BB	123049	Cart Hood
BC	123050	Hose Strap
BD	123051	Door Cover

COLLECTOR & BLOWER HOUSING



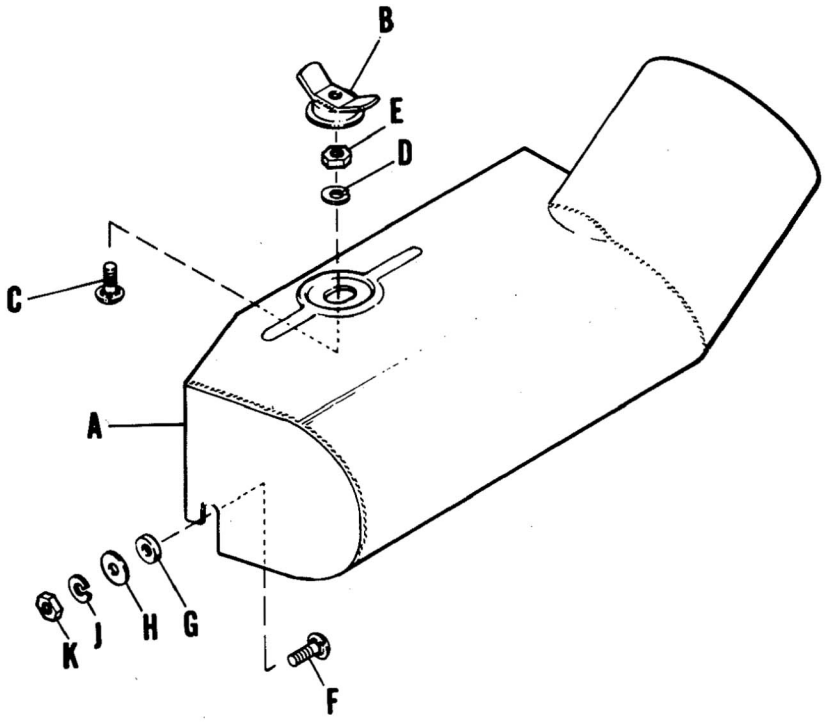
COLLECTOR & BLOWER HOUSING
PARTS LIST

Ref. Let.	Part No.	Description
A	123001	Blower Housing Support Assembly
B	123126	Housing Assembly Inlet Half
C	123012	Housing Assembly R. H. Half
D	705002	Hex Capscrew 1/4-20 x 1/2" lg.
E	720003	Lockwasher 1/4"
F	717005	Hex Nut Full 1/4-20
G	705005	Hex Cap Screw 3/8 - 16 x 1" lg.
H	705016	Hex Cap Screw 3/8 - 16 x 1-1/4" lg.
J	705009	Hex Cap Screw 3/8 - 16 x 1-1/2" lg.
K	720002	Lockwasher 3/8"
L	717003	Hex Nut Full 3/8 - 16
M	123107	Deflector
N	714014	Screw Self-Tapping #10 x 3/8" lg.
P	123015	Fan Assembly
Q	713006	Set Screw Sq. Hd. 5/16-18 x 1/2" lg.
R	725504	Key Hi-Pro
S	123087	Flange, Shaft and Bearing Assembly
T	123019	Shaft and Bearing
U	106663	Pulley
V	~~106346~~ 172845	Belt Stop
W	705009	Hex Capscrew 3/8 - 16 x 1-1/2" lg.
X	705004	Hex Capscrew 3/8 - 16 x 3/4" lg.
Y	720002	Lockwasher 3/8"
Z	719002	Washer Plain
AA	123082	Clutch Lever Assembly
AB	123027	Spacer, Clutch Lever
AC	705006	Hex Capscrew 3/8 - 16 x 2" lg.
AD	106567	Knob
AE	164205	Bracket, Belt Guard
AF	718030	Nut, Retainer
AG	705012	Hex Capscrew 5/16-18 x 5/8" lg.
AH	720001	Lockwasher 5/16
AJ	164206	Belt Guard
AK	123076	Rod Guide Assembly
AL	717511	Hex Nut Full 5/16 - 18
AM	8191045	Spring
AN	8191022	Set Collar
AP	713001	Set Screw Sq. Hd. 1/4-20 x 3/8" lg.
AQ	164203	Clutch Rod-Blower

Ref. Let.	Part No.	Description
AR	722001	Cotter Pin 3/32 x 3/4" lg.
AS	121037	Spring
AT	164202	Pulley
AU	8061081	Key
AV	118053	Pin
AW	155037	Pin
AX	8161045	Spring Clip
AY	164192	Bearing Housing Assembly
AZ	727002	Grease Fitting
BA	154258	Needle Bearing
BB	164200	Traverse Shaft Assembly
BC	8141003	Washer
BD	164199	Tension Arm Assembly
BE	108386	Idler Pulley
BF	705006	Hex Capscrew 3/8 - 16 x 2" lg.
BG	719001	Plain Washer 3/8"
BH	720002	Lockwasher 3/8"
BJ	717003	Hex Nut Full 3/8 - 16
BK	717510	Hex Nut Full Lock 3/8 - 16
BL	159159	Spring, Tension
BM	164204	Retaining Ring
BN	164195	Idler Arm Assembly
BP	8141003	Washer
BQ	158196	Special Washer
BR	158195	Pulley
BS	719003	Washer Plain
BT	720006	Lockwasher
BU	717022	Hex Nut Full 7/16 - 14
BV	161098	"V" Belt-P. T. O.
BW	123142	Hose Intake (7" Dia.)
BX	123065	Hose Clamp
BY	715069	Machine Screw Rd. Hd. 1/4-20 x 3" lg.
BZ	720003	Lockwasher 1/4
CA	123143	Hose Exhaust (6" Dia.)
CB	123067	Hose Clamp
CC	717005	Hex Nut Full 1/4-20
CD	163065	Belt Stop
CE	123111	Flange
CF	108505	"V" Belt
CG	123117	Hose Extension

Adapter Kit

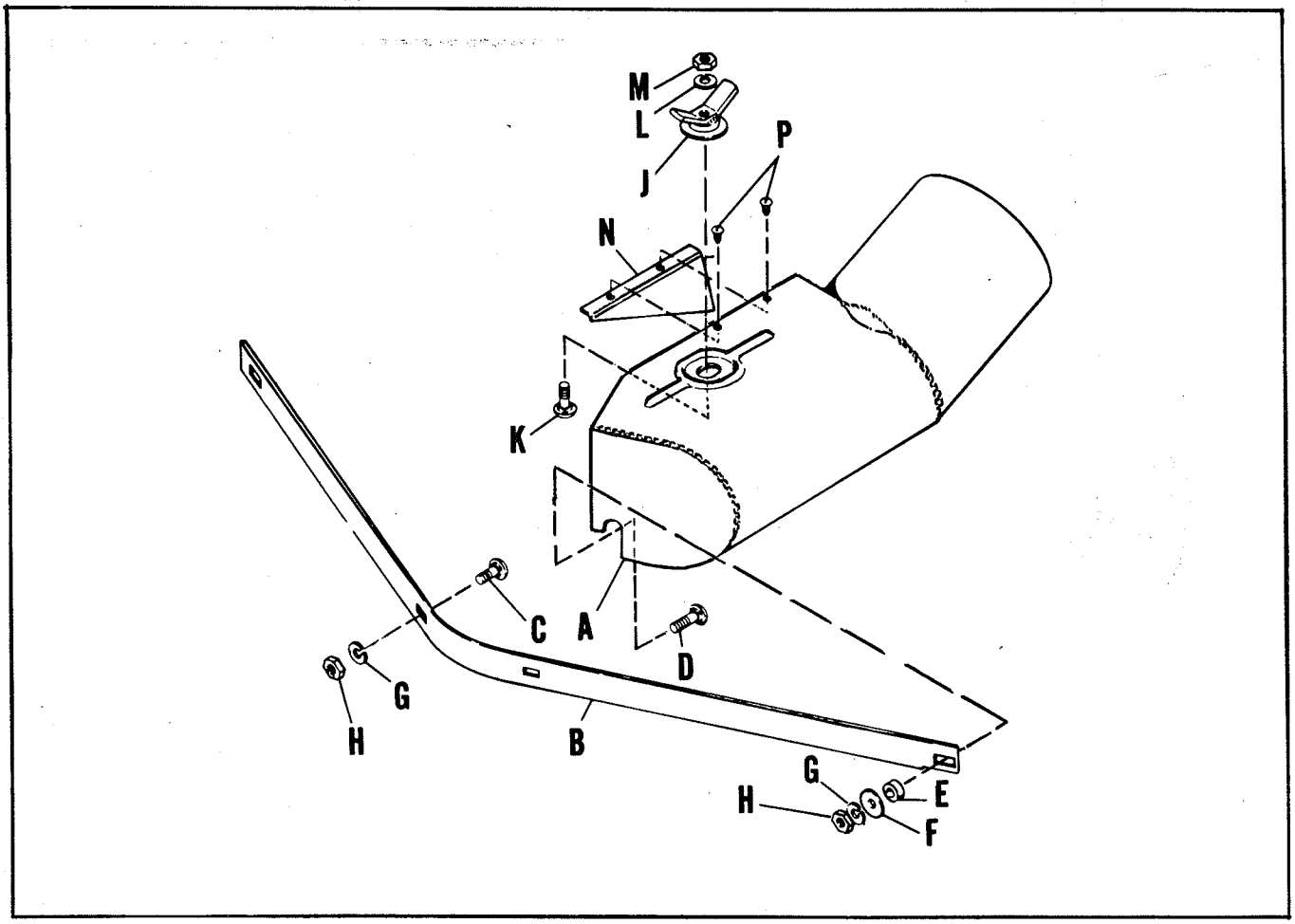
Mfrs. No. 621



Ref. Let.	Part No.	Description
A	123112	Adaptor Assembly
B	123060	Nut Assembly
C	703003	Carriage Bolt, 3/8"-16 x 1"
D	720002	Lock Washer, 3/8"
E	717003	Nut, Hex, Full, 3/8"-16
F	703002	Carriage Bolt, 3/8"-16 x 1 1/4"
G	153081	Spacer
H	157169	Washer
J	720002	Lock Washer, 3/8"
K	717003	Nut, Hex, Full, 3/8"-16

ADAPTER KIT

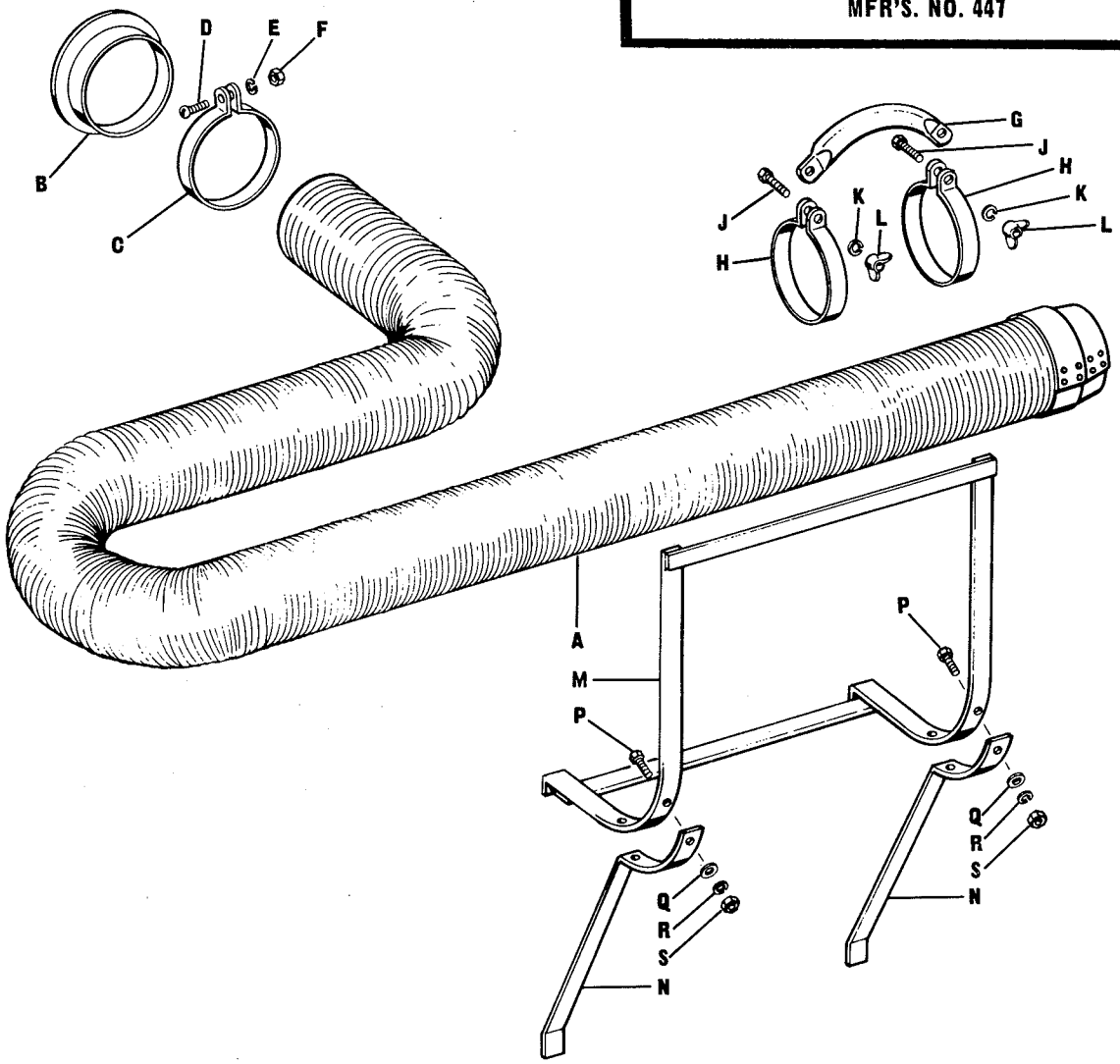
Mfrs. No. 620 42"



Ref. Let.	Part No.	Description
A	123137	Collector Side Housing Assy.
B	123059	Front Baffle
C	703003	Carriage Bolt, 3/8"-16 x 1"
D	703002	Carriage Bolt, 3/8"-16 x 1 1/4"
E	153081	Spacer
F	157169	Washer
G	720002	Lock Washer, 3/8"
H	717003	Nut, Hex, Full, 3/8"-16
J	123060	Nut Assembly
K	703003	Carriage Bolt, 3/8"-16 x 1"
L	720002	Lock Washer, 3/8"
M	717003	Nut, Hex, Full, 3/8"-16
N	123062	Baffle
P	714005	Screw, Self Tapping, No. 10-24 x 1/2"

VACUUM COLLECTOR ROVING NOZZLE

MFR'S. NO. 447



Ref. Let.	Part No.	Description
A	123127	Hose Assembly
B	123111	Hose Flange
C	123065	Hose Clamp
D	715069	Rnd. Slot. Hd. Machine Screw, 1/4''-20 x 3''
E	720003	Lock Washer, 1/4''
F	717005	Full Hex. Nut, 1/4''-20
G	123129	Hose Handle
H	123128	Hose Clamp Handle
J	705017	Hex. Cap Screw, 5/16''-18 x 3/4''
K	720001	Lock Washer, 5/16''
L	718006	Wing Nut, 5/16''-18
M	123122	Hose Carrier Assembly
N	123125	Carrier Support
P	705001	Hex. Cap Screw, 5/16''-18 x 7/8''
Q	719002	Plain Washer, 5/16''
R	720001	Lock Washer, 5/16''
S	717001	Full Hex. Nut, 5/16''-18

WARRANTY

The company warrants Simplicity Products to be free from defects in material and workmanship except the company makes no warranty express or implied with respect to tires, engines and engine accessories which generally are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year, under normal use, from date of purchase, will be replaced free of charge, f.o.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid and is found to be defective upon examination at the factory. The company is not obligated under this warranty to bear cost of labor or delivery charges in replacement of defective parts. This warranty does not apply to any Simplicity Products altered outside of Simplicity's factory. Such replacement of defective parts shall be the exclusive remedy and in no event shall Simplicity be liable for consequential damages. EXCEPT AS SPECIFICALLY PROVIDED HEREIN, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON ANY SIMPLICITY PRODUCT.

Should warranty service be necessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name _____

Address _____

Mfg. No. _____ Serial No. _____

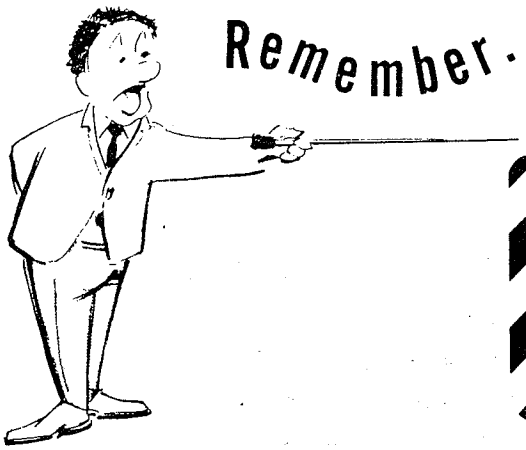
Date Purchased _____

Purchased From _____

Address _____

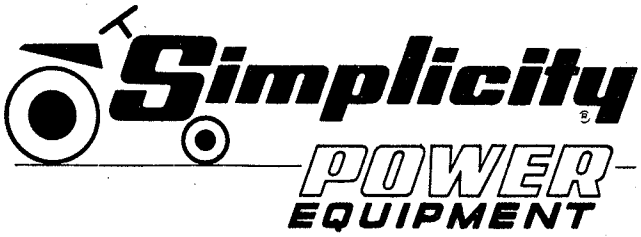
Engine Model No. _____ Serial No. _____ Type No. _____

To obtain replacement parts from dealer, advise quantity, part number and description.



FOR YOUR SAFETY

1. ALWAYS STOP ENGINE BEFORE LEAVING MACHINE
2. ALWAYS STOP ENGINE BEFORE SERVICING OR ADJUSTING MACHINE OR EQUIPMENT
3. ALWAYS KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER-DRIVEN PARTS



SIMPLICITY MANUFACTURING COMPANY, INC.
PORT WASHINGTON, WISCONSIN 53074